MATHEMATICS (BS)

Program Overview

The Bachelor of Science in Mathematics features a traditional, rigorous plan of study designed to expose the student to a broad range of mathematics at a level sufficient for graduate studies in math or statistics.

Career Opportunities

Teacher (with the completion of additional preparation for certification), trade assistant, quantitative analyst, graduate studies

Program of Study

Code	Title	Credit Hours
Core IMPACTS A	rea : Institutional Priorities ¹	4-5
COMM 1110	Public Speaking	3
ITDS 1779	Scholarship Across the Disciplines	2
LEAD 1705	Introduction to Servant Leadership	2
PERS 1506	Perspectives 1-hour	1
PERS 1507	Perspectives 2-hour	2
Foreign Languag	e Course Options	
	REN, GERM, GREK, ITAL, JAPN, KREN, LATIN, POF 1002, 2001, 2002	łΤ,
SWAH 1001	Elementary Swahili I	
SWAH 1002	Elementary Swahili II	
Core IMPACTS A	rea : Mathematics & Quantitative Skills ¹	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3
Core IMPACTS A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	Arts course	3
ARTH 1100	Art Appreciation	
ARTH 2125	Introduction to the History of Art I– Prehistoric through Gothic	
ARTH 2126	Introduction to the History of Art II– Renaissanc through Modern	e
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	

Select one Humanities courseENGL 2111World Literature IENGL 2112World Literature IIITDS 1774Introduction to Digital HumanitiesPHIL 2010Introduction to PhilosophyITDS 1145Comparative Arts 2Core IMPACTS Area : Communicating in WritingENGL 1101English Composition ICore IMPACTS Area : Technology, Mathematics, and Sciences 1AMTH 1145Human OriginsAMTH 1145AMTH 1145Descriptive Astronomy: The Solar SystemASTR 1106Descriptive Astronomy: Stars and GalaxiesASTR 1105Descriptive Astronomy: Stars and GalaxiesATSC 1112Understanding the WeatherATSC 1112Understanding the WeatherATSC 1112Understanding the Weather LabBIOL 1125Contemporary Issues in Biology Non-LabBIOL 1125Contemporary Issues in Biology with LabCHEM 1151Survey of Chemistry ILabCHEM 1152Survey of Chemistry ILabCHEM 1152Survey of Chemistry ILabCHEM 1212Principles of Chemistry ILabCHEM 1212Principles of Chemistry ILabCHEM 1212 <td colspan<="" th=""><th>ITDS 1145</th><th>Comparative Arts ²</th><th></th></td>	<th>ITDS 1145</th> <th>Comparative Arts ²</th> <th></th>	ITDS 1145	Comparative Arts ²	
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Core IMPACTS Area : Social Sciences	& PHYS 2312	and Principles of Physics II Lab	4	
	Core IMPACTS A	Area : Social Sciences	6	

Select one Behavi	ioral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World	Cultures course	3
ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1156	Understanding Non-Western Cultures	
Core IMPACTS To	tal Hours	42
Health and Wellne	255	3
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one PEDS of descriptions/peds	course (https://catalog.columbusstate.edu/course-	

descriptions/peds/#peds)

¹ The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

 ² ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

Major Requirements

Core Requirements 4 Complete the core requirements for this program 4 Core Total 4 Field of Study Requirements 4		
Core Total 4		
Field of Study Bequirements		
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Select the following course (the extra credit is counted in Area G):		
CPSC 1301K Computer Science I		
1 Math credit from the following (Area A or D):		
MATH 1131 Calculus with Analytic Geometry I		
4 Math credits for the following or 1 credit from Area D: 1-		
MATH 1132 Calculus with Analytic Geometry II		
MATH 2115 Introduction to Linear Algebra		
MATH 2135 Calculus with Analytic Geometry 3		
STAT 1401 Elementary Statistics		
Guided Elective ¹ 0-		
Field of Study Requirements Total		
Required for the Major		
1 credit from the following (Area F):		
CPSC 1301K Computer Science I		
1 credit if taken for Area A Math: 0-		
MATH 1113 Pre-Calculus		

UTCH 4205 UTCH 4485 UTCH 4795 General Electives	Student Teaching Student Teaching Seminar Total	25-26
UTCH 4485 UTCH 4795	Student Teaching Seminar	
UTCH 4485	5	
	Inquiry-Based Instruction	
UTCH 3205	Classroom Interactions	
UTCH 3115	Functions and Modeling for Secondary Mathematics Teachers	
UTCH 2203	Step III: Technological and Pedagogical Content Knowledge	
UTCH 2105	Knowing and Learning in Mathematics and Science	
UTCH 1202	Step II: Inquiry-Based Lesson Design	
UTCH 1201	Step I: Inquiry Approaches to Teaching	
SPED 4115	Teaching Math and Science to Exceptional Learners (Minimum grade of B is required for certification)	
UTeach Columbu	is Teaching Option: ³	
	he 2000-level or higher are recommended)	
	redits at the 1000-level or higher (6 credits in Frend	ch
5 1	s at 3000-level or higher	
Non-Teaching Op	5 1	25-20
	following options:	25-26
Major Electives T General Electives		9
or higher ²		9
•	of MATH or STAT or DATA courses at the 3000 leve	9
Required for the I Major Electives	Major Total	25-26
MATH 5175U	Mathematical Statistics	3
MATH 5151U	Introduction to Real Analysis I	3
MATH 5111U	Introduction to Abstract Algebra I	3
MATH 4795	Senior Seminar in Mathematics	3
MATH 3175	Introduction to Probability	3
MATH 3155	Introduction to Mathematical Proofs	3
	Differential Equations	3
MATH 3107		

¹ Guided elective will be selected from among freshman and sophomore level courses in science, business, and education based upon student interests and career goals and requiring the approval of a faculty advisor and the Mathematics Department Chair.

² STAT 5176U Statistical Design and Analysis of Experiments and STAT 5177U Applied Regression Analysis are recommended for graduate study in statistics. MATH 5135U College Geometry and MATH 5185U History of Mathematics are required for teacher certification.

³ Only two attempts allowed for each of the following courses.

Program Map

Course	Title	Credit
Course	Inte	Hours
First Year		
Fall		
MATH 1113	Pre-Calculus (minimum grade of C)	4
	its to Area A and 1 credit to Area G.)	
ENGL 1101	English Composition I (minimum grade of C)	3
AREA D	Lab Science	4
Area B1	COMM 1110 Public Speaking or Foreign Language	3
AREA E	Behavioral Science	3
	Credit Hours	17
Spring		
MATH 1131	Calculus with Analytic Geometry I (minimum grade of C)	4
(Apply 3 cred	its to Area D and 1 credit to Area F.)	
ENGL 1102	English Composition II (minimum grade of C)	3
STAT 1401	Elementary Statistics (minimum grade of C)	3
CPSC 1301K	Computer Science I (minimum grade of C)	4
(Apply 3 cred	its to Area F and 1 credit to Area G.)	
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
	Credit Hours	15
Second Year Fall		
MATH 1132	Coloulus with Analytic Coomstrull	
100/1111102	Calculus with Analytic Geometry II (minimum grade of C) ¹	4
MATH 2125		4
	(minimum grade of C) ¹ Introduction to Discrete Mathematics	
MATH 2125	(minimum grade of C) ¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum	3 3 3
MATH 2125 MATH 2115 AREA C	(minimum grade of C) ¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course ²	3 3
MATH 2125 MATH 2115 AREA C	(minimum grade of C) ¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course ² World Cultures	3 3 3 3
MATH 2125 MATH 2115 AREA C AREA E	(minimum grade of C) ¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course ² World Cultures	3 3 3 3
MATH 2125 MATH 2115 AREA C AREA E Spring	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of 	3 3 3 3 16
MATH 2125 MATH 2115 AREA C AREA E Spring MATH 3107	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs 	3 3 3 3 16 3
MATH 2125 MATH 2115 AREA C AREA E Spring MATH 3107 MATH 3155	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs (minimum grade of C) Introduction to Probability (minimum grade 	3 3 3 3 16 3 3
MATH 2125 MATH 2115 AREA C AREA E Spring MATH 3107 MATH 3155 MATH 3175	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs (minimum grade of C) Introduction to Probability (minimum grade of C) 	3 3 3 3 16 3 3 3
MATH 2125 MATH 2115 AREA C AREA E Spring MATH 3107 MATH 3155 MATH 3175 AREA C	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs (minimum grade of C) Introduction to Probability (minimum grade of C) Fine Arts Course Calculus with Analytic Geometry 3 	3 3 3 3 16 3 3 3 3 3
MATH 2125 MATH 2115 AREA C AREA E Spring MATH 3107 MATH 3155 MATH 3175 AREA C	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs (minimum grade of C) Introduction to Probability (minimum grade of C) Fine Arts Course Calculus with Analytic Geometry 3 (minimum grade of C) 	3 3 3 3 16 3 3 3 3 4
MATH 2125 MATH 2115 AREA C AREA C AREA E Spring MATH 3107 MATH 3155 MATH 3175 AREA C MATH 2135 Third Year	 (minimum grade of C)¹ Introduction to Discrete Mathematics (minimum grade of C) Introduction to Linear Algebra (minimum grade of C) Humanities Course² World Cultures Credit Hours Differential Equations (minimum grade of C) Introduction to Mathematical Proofs (minimum grade of C) Introduction to Probability (minimum grade of C) Fine Arts Course Calculus with Analytic Geometry 3 (minimum grade of C) 	3 3 3 3 16 3 3 3 3 4

MATH 5151U	Introduction to Real Analysis I (minimum grade of C)	3
MATH 5175U	Mathematical Statistics (minimum grade of C)	3
AREA D	Lab Science	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
PEDS		1
	Credit Hours	16
Spring		
MATH 5111U	Introduction to Abstract Algebra I (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA I	General Elective ³	3
AREA I	Upper Level General Elective ³	3
	Credit Hours	15
Fourth Year		
Fall		
MATH 4795	Senior Seminar in Mathematics (minimum grade of C)	3
AREA H	Program Elective (minimum grade of C)	3
AREA I	General Elective ³	1
AREA I	General Elective ³	3
AREA I	Upper Level General Elective ³	3
	Credit Hours	13
Spring		
AREA I	Upper Level General Elective ³	3
AREA I	General Elective ³	3
AREA I	General Elective ³	3
AREA I	General Elective ³	3
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
	Credit Hours	15
	Total Credit Hours	123

 $^1\,$ If MATH 1132 is used in Area D, the one extra hour will count in Area F. $^2\,$ ITDS 2125 Historical Perspectives on the Philosophy of Science and

Mathematics recommended for the UTeach program.

³ If an elective course is taken to complete the UTeach program or minor, then a C or better is required.

The student needs to work with his/her advisor to choose appropriate elective courses to make sure that he/she meets the total hours required for the program (123 or 125-128 with UTeach).

Admission Requirements

There are no program specific admission requirements.

Additional Program Requirements

There are no program specific academic regulations.